



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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GAF

1 Campus Drive
Parsippany, NJ 07054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Liberty™ SBS Self-Adhering Modified Bitumen Roofing Systems Over Gypsum Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 14-0204.02 and consists of pages 1 through 9.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 15-0203.07
Expiration Date: 03/04/19
Approval Date: 04/23/15
Page 1 of 9

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: APP/SBS
Deck Type: Gypsum
Maximum Design Pressure: -147.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Liberty™ SBS Self-Adhering Base/Ply Sheet	39.375" x 66'	ASTM D6163	Self-adhering, SBS modified base or ply sheet with glass reinforced mat.
WeatherWatch® XT	36" x 50' rolls 36" x 66.7' rolls	ASTM D1970	Mat surfaced SBS modified, fiberglass reinforced, bituminous sheet material for used as a leak barrier underlayment.
Ruberoid® SBS Heat-Weld™ Smooth	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with SBS polymer-modified asphalt and smooth surfaced.
Ruberoid® SBS Heat-Weld™ Granule	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with SBS polymer modified asphalt and surfaced with mineral granules.
Ruberoid® SBS Heat-Weld™ 170 FR	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with fire retardant SBS polymer modified asphalt and surfaced with mineral granules.
Ruberoid® SBS Heat-Weld™ Plus	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with SBS polymer-modified asphalt and surfaced with mineral granules.
Ruberoid® SBS Heat-Weld™ Plus FR	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with fire retardant SBS polymer-modified asphalt and surfaced with mineral granules.
Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with fire retardant SBS polymer-modified asphalt and surfaced with mineral granules with factory applied EnergyCote™.
Ruberoid® Torch Smooth	39.37" (1 meter) Wide	ASTM D6222	Non-woven polyester mat coated with APP modified asphalt and smooth surfaced.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Tri-Ply® TP-4	39.37" (1 meter) Wide	ASTM D6222	Non-woven polyester mat coated with APP modified asphalt and smooth surfaced.
Ruberoid® Torch Granule	39.37" (1 meter) Wide	ASTM D6222	Non-woven polyester mat coated with APP modified asphalt and surfaced with mineral granules.
Ruberoid® Torch 180	39.37" (1 meter) Wide	ASTM D6222	Non-woven polyester mat coated with APP modified asphalt and surfaced with mineral granules.
RoofMatch™ APP Modified Granular	107 sq. ft. (9.9 m2)	ASTM D6222	Non-woven polyester mat coated with APP modified asphalt and surfaced with mineral granules.
Tri-Ply® TP-4G	39.37" (1 meter) Wide	ASTM D 6222	Non-woven polyester mat coated with APP modified asphalt and surfaced with mineral granules.
Ruberoid® Torch FR	39.37" (1 meter) Wide	ASTM D6222	Non-woven polyester mat coated with fire retardant polymer modified asphalt surfaced with mineral granules.
Ruberoid® EnergyCap™ Torch Plus FR	39.37" (1 meter) Wide	ASTM D6222	APP modified cap membrane with a torch grade bottom surface and a mineral granular top surface coated with factory applied EnergyCote™.
Ruberoid® EnergyCap™ Torch Granule FR	39.37" (1 meter) Wide	ASTM D6222	APP modified cap membrane with a torch grade bottom surface and a mineral granular top surface coated with factory applied EnergyCote™.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
Tri-Ply® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules and factory applied EnergyCote™.
Topcoat® Membrane	1, 5, 55 gallons	ASTM D6083	Acrylic, water based elastomeric membrane system designed to protect various types of roof surfaces.
Topcoat® MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer designed to block asphalt bleed-through.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Topcoat® Surface Seal SB	5, 55 gallons	ASTM D6083	Solvent based sprayable thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity.
Topcoat® FlexSeal	1, 5 gallons or 1 qt. tube	Proprietary	Solvent based flashing compound for gutters and other detailing.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
Securock® Gypsum-Fiber Roof Board	Gypsum board	US Gypsum Corp.
DensDeck® Prime® Roof Board	Gypsum board	G-P Gypsum

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	N/A	N/A	N/A	N/A



EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report Identifier	Date
Factory Mutual Research Corp.	4470	3024805	11/20/06
	4470	3044688	03/16/12
	4470	3036980	08/14/09
	4470	3031350	09/27/07
	4470	3041769	09/27/12
UL LLC	UL 790	R10689	03/14/13
	UL 790	R1306	05/22/13
Exterior Research and Design, LLC	ASTM D5147	18034.03.03-2	04/23/03
	TAS 114-F/G/I	01501.04.03	04/03/03
Trinty ERD	ASTM D6222	G40620.07.12-2	07/17/12
	ASTM D6222	G30250.02.10-2	11/11/10
	ASTM D6222	G6850.10.08	10/06/08
	ASTM D6222	G6850.11.08	02/17/09
	ASTM D3909	G30250.02.10-3-R1	11/26/12
	ASTM D3909	G6850.08.07-1	08/13/07
	ASTM D6862	C8500SC.11.07	11/30/07
	ASTM D6164	G6850.08.08-R1	04/14/11
	ASTM D4601	G43180.01.14-1	01/10/14
	ASTM D6164	G43180.01.14-2A	01/07/14
	ASTM D6164	G43180.01.14-2B	01/07/14
	ASTM D6164	G43180.01.14-2C	01/07/14
	ASTM D6222	G43190.11.13-1	11/15/13
	ASTM D6164/D5147	G43180.03.14	03/03/14
	ASTM D6222/D5147	G43190.03.14	03/06/14
	ASTM D6164/D5147	G40630.03.14	03/06/14
	ASTM D6222/D5147	G43190.03.14-2	03/06/14
Atlantic & Caribbean Roof Consulting, LLC	TAS 114-D	11-043	08/08/11
	TAS 114-D	11-046	08/09/11
PRI Construction Technologies LLC	ASTM D1970	GAF-343-02-01	04/23/12
	ASTM D1970	GAF-256-02-01	05/21/12
	ASTM D6083	GAF 082-02-01	05/07/06
	ASTM D6083	GAF-209-211-02-01	05/05/09
	ASTM D6083	GAF-084-02-01	05/07/06
	TAS 139	GAF-122-02-01	05/07/06
	ASTM C1289	GAF-369-02-01	10/22/12
Momentum Technologies, Inc.	ASTM D6083	EX14A3A	02/26/04



APPROVED ASSEMBLIES:

Membrane Type: APP/SBS, Self-Adhered

Deck Type 6: Gypsum, Insulated

Deck Description: Gypsum concrete

System Type A(1): Insulation adhered to the deck, base sheet adhered to insulation.

All General and System Limitations shall apply.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: Insulation adhered to deck with OlyBond 500® or OlyBond 500® Green in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet or WeatherWatch® XT self-adhered to insulation in accordance with manufacturer's application instructions.

Cap Sheet: One or more plies of Ruberoid® SBS Heat-Weld™ Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® SBS Heat-Weld™ Plus FR or Ruberoid® EnergyCap SBS Heat-Weld™ Plus FR heat welded with minimum 3.0" wide laps to the self-adhered base sheet in accordance with manufacturer's application instructions.

OR

One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, RoofMatch™ APP Modified Granular, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Plus FR or Ruberoid® EnergyCap™ Torch Granule FR torch applied with minimum 3.0" wide laps to the self-adhered base sheet in accordance with manufacturer's application instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. Fibered Aluminum Roof Coating.

Maximum Design

Pressure: -147.5 psf. (See General Limitation #9)



Membrane Type: APP/SBS, Self-Adhered

Deck Type 6: Gypsum, Insulated

Deck Description: Gypsum concrete

System Type A(2): Insulation adhered to the deck, base sheet adhered to insulation.

All General and System Limitations shall apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: Base layer insulation adhered to deck with OlyBond 500® or OlyBond 500® Green in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick OR DensDeck® Prime® Roof Board Minimum 0.25" thick	N/A	N/A

Note: Top layer insulation adhered to base layer with OlyBond 500® or OlyBond 500® Green in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet self-adhered to Securock® Gypsum-Fiber Roof Board in accordance with manufacturer's application instructions.
Or
One ply of WeatherWatch® XT self-adhered to DensDeck® Prime® Roof Board or Securock® Gypsum-Fiber Roof Board in accordance with manufacturer's application instructions.

Cap Sheet: One or more plies of Ruberoid® SBS Heat-Weld™ Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® SBS Heat-Weld™ Plus FR or Ruberoid® EnergyCap SBS Heat-Weld™ Plus FR heat welded with minimum 3.0" wide laps to the self-adhered base sheet in accordance with manufacturer's application instructions.
OR
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, RoofMatch™ APP Modified Granular, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Plus FR or Ruberoid® EnergyCap™ Torch Granule FR torch applied with minimum 3.0" wide laps to the self-adhered base sheet in accordance with manufacturer's application instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. Fibered Aluminum Roof Coating.

Maximum Design

Pressure: -105 psf. (See General Limitation #9)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

